SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/FIRM

1.1 Product identifier
Identification of the mixture:
Trade Name: ECOMICRONDE

1.2 Relevant identified uses of the substance/mixture and uses advised against
Microwave cleaner

1.3 Information on safety data sheet supplier
Supplier:
DCCHEM SRL - DORNO (PV) 27020 - STRADA DELLA COSTIERA
PH. +39 0382 812511 - FAX +39 0382 848570
Competent person responsible for the safety data sheet: docchem@docchem.it

1.4 Emergency telephone numbers
Poison Control Centre - Niguarda Hospital - Milan - Ph. +39 02/66101029
Pavia - 0382/24444
Bergamo - 800 883300—Firenze-055/7947819—Roma Gemelli-06/3054343—Roma Umberto-06/49978000
Napoli-081/7472870

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture
Policy of Directives 67/548/EC, 99/45/EC and subsequent amendments:
Properties/Symbols:
Xi Irritating

The full text of risk phrases (R) is shown on section 16 of the data sheet

2.2 Label elements

Xi Key to symbols:
Xi Irritating
R-Phrases:
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
S-Phrases:
S2 Keep out of reach of children
S23 Do not breathe vapours and aerosols
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye face protection
S46 If swallowed, seek medical advice immediately and show this container or label.
S51 Use only in well-ventilated areas

2.3. Other hazards
VPvB substances: None - PBT substances: None.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances N.A.
3.2 Mixtures
Hazardous components according to EEC Directive 67/548 and CLP Regulation and corresponding classification:
1%-3% Alkyl ether polyglycols C8-10 con EO
CAS: 71060-57-6
Xi; R41
Eye Dam. 1 H318

1%-9% 2-Butoxyethanol
Index Number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0
Xn,Xi; R20/21/22-36/38
Eye Irrit. 2 H319
Skin Irrit. 2 H315
Oral Acute Tox. 4 H302
Dermal Acute Tox. 4 H312
Inhal Acute Tox. 4 H332
Safety data in accordance with art. 31 of Reg. (EC) No. 1907/2006
ECOMICROONDE

1% - 9% propan-2-ol
Index Number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7
F, Xi; R11-36-67
Flam. Liq. 2 H225
Eye Irrit. 2 H319
STOT SE 3 H336

5%-7% Sodium Laureth Sulfate
CAS: 9004-82-4
Xi; R36/38
Eye Irrit. 2 H319
Skin Irrit. 2 H315

0.5%-1.8% potassium hydroxide; caustic potash
Xn,C; R22-35
Skin Corr. 1A H314
Oral Acute Tox. 4 H302

SECTION 4. FIRST AID MEASURES
4.1 Description of first aid measures
In case of contact with skin:
Immediately take off all contaminated clothing.
Rinse immediately with plenty of water and in case soap the areas of the body that has come in contact with
the product, even if only suspected.
SEEK MEDICAL ADVICE IMMEDIATELY.

In case of contact with eyes:
In case of contact with eyes, rinse them with water for a sufficient length of time and keeping the eyelids open,
then immediately consult an ophthalmologist.
Protect uninjured eye.

In case of ingestion:
DO NOT induce vomiting.

In case of inhalation:
Remove to fresh air and keep warm and at rest the person concerned.

4.2. Main symptoms and effects, both acute and delayed
None

4.3 Indication of any immediate medical attention and of special treatment
In case of accident or illness seek medical advice immediately (when and if possible show him the safety data sheet
of the product).
Treatment:
None

SECTION 5. FIRE-FIGHTING MEASURES
5.1 Extinguishing media
Suitable extinguishing media:
Water
Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
No one in particular.

5.2 Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3 Advice for fire fighters
Use proper respiratory equipment.
Collect separately contaminated quenching water. Do not discharge into the sewer.
If feasible in terms of safety, move from immediate danger undamaged containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, personal protective equipment and emergency procedures
Wear personal protective equipment.
Move people in a safe place.
See protective measures under sections 7 and 8.
6.2. Environmental precautions
Do not allow to enter into soil subsoil. Prevent runoff into surface water or sanitary sewer system.
In the event of a gas leak or penetration into waterways, soil or sewer system inform the responsible entities
Material suitable for collecting: absorbing material, organic material, sand

6.3 Methods and materials for containment and cleaning up
Wash with plenty of water.

6.4 Reference to other sections
See also sections 8 and 13

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Avoid contact with skin and eyes, as well as inhalation of vapours and mists.
Use extreme caution when handling or opening the container.
Do not use empty containers before they have been properly cleaned.
Before carrying out any transfer operations make sure the containers do not contain incompatible material residues.
Contaminated clothing should be changed before entering eating areas.
When using do not eat or drink.
Please see also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers always tightly closed.
Keep away from food, drink and animal feed.
Incompatible materials: None. See also following section 10.
Instructions concerning storage premises:
Adequately ventilated rooms.

7.3 Use
No special use

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>EC No.</th>
<th>CAS No.</th>
<th>Name</th>
<th>Exposure limit source</th>
<th>8 hours</th>
<th>Short term</th>
<th>Notation</th>
</tr>
</thead>
</table>
| 200-661-7 | 67-63-0 | Propane-2-ol | ACGIH                 | 500     | 200        | 1.000    | 400      | ======
| 203-905-0 | 111-76-2 | 2-Butoxyethanol | Annex XXXVIII Legislative Decree 81/2008 | 98      | 20         | 246      | 50       | Skin

Exposure limit values DNEL
"Not available"
Exposure limit values PNEC
"Not available"

8.2. Exposure controls

Eye protection: (EN 166)
Use safety goggles, do not use eye lens.

Skin protection: (Directive 89/686/EEC and standard EN 344)
Use clothing that provides comprehensive protection to the skin, e.g. made of cotton, rubber, PVC or Viton.

Hand Protection: (Directive 89/686/EEC and standard EN 374)
Use protective gloves that provides comprehensive protection, e.g. made of PVC, neoprene or rubber.

Respiratory Protection: (EN 141)
If the threshold value for one or more of the substances present in the preparation referred to daily exposure in the workplace or to a fraction established by the company’s prevention and protection service is exceeded, or no technical measures are taken to limit exposure, wear a filter mask type FFP1.

Thermal hazards:
None

Environmental exposure controls:
None
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Liquid
Odour: Characteristic
Odour threshold: "Not available"
pH: 11
Melting point/freezing point: "Not available"
Initial boiling point and boiling range: "Not available"
Solids/gases flammability: "Not available"
Upper/lower flammability or explosive limit: "Not available"
Vapour density: "Not available"
Flash point: > 55°C
Evaporation rate: "Not available"
Vapour pressure: "Not available"
Specific gravity: "Not available"
Water solubility: Yes
Liposolubility: "Not available"
Partition coefficient (n-octanol/water): "Not available"
Autoignition temperature: "Not available"
Decomposition temperature: "Not available"
Viscosity: "Not available"
Explosive properties: "Not available"
Oxidizing properties: "Not available"

9.2. Other information
Miscibility: "Not available"
Liposolubility: "Not available"
Conductivity: "Not available"
Characteristic properties of substance groups: "Not available"

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
Stable under normal conditions

10.2 Chemical stability
Stable under normal conditions

10.3. Possibility of dangerous reactions
It can generate flammable gases in contact with halogenated organic substances, elemental metals.

10.4 Conditions to avoid:
Stable under normal conditions.

10.5. Incompatible materials
None

10.6. Hazardous decomposition products:
None.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Toxicological information relating to the mixture: "Not available"
Toxicological information relating to the main substances in the mixture:
2-Butoxyethanol - CAS: 111-76-2
LD50 (rabbit) dermal: 320 MG/KG

Unless otherwise specified, the data required by Regulation 453/2010/EC below are to be intended N.A.:

a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) Specific Target Organ Toxicity (STOT) - single exposure;
i) Specific Target Organ Toxicity (STOT) - repeated exposure;
j) aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION

Poison
Use according to good working practices and dispose of carefully.

12.2 Persistence and degradability
None
"Not available"

12.3 Bioaccumulative potential
"Not available"
12.4 Mobility in soil  "Not available"
12.5 Results of PBT and vPvB assessments  vPvB
Substances: None - PBT substances: None.
12.6. Other adverse effects
None

SECTION 13. DISPOSAL CONSIDERATIONS
13.1. Waste treatment methods
Recover if possible. Operate according to local and national regulations.

SECTION 14. TRANSPORT INFORMATION
14.1. UN number:
Not classified as hazardous goods according to transport regulations.
14.2. UN shipping name  Not applicable/not hazardous:
14.3 Transport hazard class(es):
"Not available"
14.4. Packing group:
"Not available"
14.5 Environmental hazards
"Not available"
14.6 Special precautions for users
"Not available"
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
No

SECTION 15. REGULATORY INFORMATION
15.1. Standards and legislation on health, safety and environmental specifications for the substance or mixture.
Seveso category: None
Restrictions concerning the product or substances contained as per Annex XVII Regulation (EC) 1907/2006.
Product: n. 3
Candidate List Substances (Art. 59 REACH).
None.
Substances subject to authorisation (Annex XIV REACH).
None.
Public health control.
Workers exposed to this hazardous chemical agent must undergo health surveillance
carried out in accordance with the provisions of art. 41 of Legislative Decree No. 81 of 9 April 2008 unless the risk
for health of the worker was assessed irrelevant, according to art. 224 paragraph 2.
The product falls within the scope of application of Regulation (EC) No. 648/2004 on detergents.
15.2. Chemical Safety Assessment.
A chemical safety assessment for the mixture and substances contained therein was not prepared.

SECTION 16. OTHER INFORMATION
Text of phrases used in section 3:
R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R22 Harmful if swallowed.
R35 Causes severe burns.
R36 Irritating to eyes.
R 38 Irritating to skin.
R41 Risk of serious damage to eyes.
R67 Vapours may cause drowsiness and dizziness.
H319 Causes severe eye irritation.
H315 Causes skin irritation.
H318 Causes serious eye injuries
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H225 highly flammable liquid and vapours.
H336 May cause drowsiness or dizziness.
H314 Causes severe skin burns and eye damage.
This sheet has been revised in all its sections in accordance with Regulation 453/2010/EU. This document was written by a person responsible for SDS who received appropriate training.

**GENERAL BIBLIOGRAPHY:**
1. Directive 1999/45/EC and subsequent amendments
7. The Merck Index. Current 10
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique
11. Patty - Industrial Hygiene and Toxicology

The information contained herein is based on our knowledge at the date indicated. It refers solely to the product indicated and constitutes no guarantee of particular quality.

The user is obliged to check the suitability and completeness of such information in relation to the specific use intended. This safety data sheet cancels and replaces any preceding release.

**ACRONYMS:**
- **ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road.
- **CAS:** Chemical Abstract Service (division of the American Chemical Society).
- **CLP:** Classification, Labelling, Packaging.
- **DNEL:** Derived no effect level.
- **EINECS:** European Inventory of Existing Commercial Chemical Substances.
- **GefStoFFVO:** Hazardous Substances Ordinance, Germany.
- **GHS:** Globally Harmonized System of Classification and Labelling of Chemicals.
- **IATA:** International Air Transport Association.
- **IATA-DGR:** Dangerous Goods Regulations of the "International Air Transport Association" (IATA).
- **ICAO:** International Organization for Civil Aviation.
- **ICAO-TI:** Technical Instructions of the "International Organization for Civil Aviation" (ICAO).
- **IMDG:** International Maritime Dangerous Goods Code.
- **INCI:** International Nomenclature of Cosmetic Ingredients.
- **KSt:** Coefficient of explosion.
- **LC50:** Concentration lethal to 50 percent of the test population.
- **LD50:** Lethal dose to 50 percent of the test population.
- **LTE:** Long-term exposure.
- **PNEC:** Predicted No-Effect Concentration.
- **RID:** Regulation concerning the International Carriage of Dangerous Goods by Rail.
- **STE:** Short-term exposure.
- **STEL:** Short-term exposure limit.
- **STOT:** Specific Target Organ Toxicity.
- **TLV:** Threshold Limit Value.
- **TWATLV:** Threshold limit value for an average time weighted exposure of 8 hours a day. (standard ACGIH).
- **WGK:** German Water Hazard Class.